# Power Pentode

### 9-PIN MINIATURE TYPE

### GENERAL DATA

	Electrical:					
	Heater, for Unipotential Cathode:  Voltage (AC or DC)					
	Grid No.1 to plate 0.14 max. μμf Grid No.1 to cathode, grid No.3 & internal shield, grid No.2,					
	and heater					
$\sim$	and heater					
	Characteristics, Class A <sub> </sub> Amplifier:					
	Plate Supply Voltage					
	Transconductance.					
	Mechanical:					
	Operating Position					
	Pin 1 - Cathode Pin 2 - Grid No.1 Pin 3 - Grid No.3, Internal Shield  Pin 6 - No Connection Pin 7 - Plate Pin 8 - Grid No.2 Pin 9 - Grid No.3, Pin					
	Pin 4 - Heater Internal Pin 5 - Heater Shield					
AF POWER AMPLIFIER - Class A						
	Maximum Ratings, Design-Naximum Values:PLATE SUPPLY VOLTAGE.600 max. voltsPLATE VOLTAGE.330 max. voltsGRID-No.2 SUPPLY VOLTAGE.600 max. voltsGRID-No.2 (SCREEN-GRID) VOLTAGE330 max. volts					

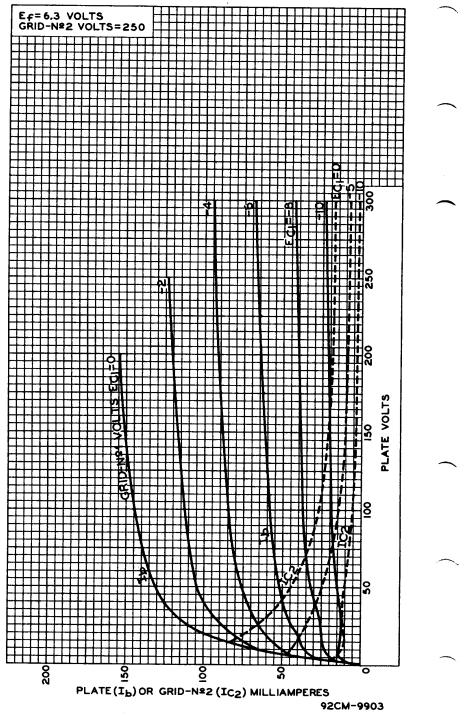
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GRID-No.1 (CONTROL-GRID) VOLTAGE: Negative-bias value					
Plate Supply Voltage. 250 volts Grid-No.2 Supply Voltage. 250 volts Cathode Resistor. 135 ohms Peak AF Grid-No.1 Voltage 7.3 volts Zero-Signal Plate Current 48 ma MaxSignal Plate Current 50.6 ma Zero-Signal Grid-No.2 Current 5.5 ma MaxSignal Grid-No.2 Current 10 ma Effective Load Resistance 5200 ohms Total Harmonic Distortion 10 % MaxSignal Power Output 5.7 watts  Maximum Circuit Values: Grid-No.1-Circuit Resistance: For fixed-bias operation. 0.3 max. megohm For cathode-bias operation. 1 max. megohm For cathode-bias operation. 1 max. megohm For cathode-bias operation. 2 max. volts RRID-No.2 SUPPLY VOLTAGE. 600 max. volts GRID-No.2 SUPPLY VOLTAGE. 600 max. volts GRID-No.2 (SCREEN-GRID) VOLTAGE: 330 max. volts GRID-No.1 (CONTROL-GRID) VOLTAGE: 330 max. volts GRID-No.1 (CONTROL-GRID) VOLTAGE: 330 max. volts GRID-No.2 INPUT: Peak. 4 max. watts Average 2 max. watts PLATE DISSIPATION 13.2 max. watts PLATE DISSIPATION 13.2 max. watts PLATE DISSIPATION 13.2 max. volts Typical Operation:  Values are for 2 tubes  Plate Supply Voltage. 250 300 volts Grid-No.2 Supply Voltage. 250 300 volts Cathode Resistor. 130 130 ohms Peak AF Grid-No.1-to-Grid-No.1 Voltage. 22.4 28 volts	Negative-bias value	65 4 2 13.2 100	max. max. max. max.	watts watts watts	
Plate Supply Voltage. 250 volts Grid-No.2 Supply Voltage. 250 volts Cathode Resistor. 135 ohms Peak AF Grid-No.1 Voltage 7.3 volts Zero-Signal Plate Current 48 ma MaxSignal Plate Current 50.6 ma Zero-Signal Grid-No.2 Current 5.5 ma MaxSignal Grid-No.2 Current 10 ma Effective Load Resistance 5200 ohms Total Harmonic Distortion 10 % MaxSignal Power Output 5.7 watts  Maximum Circuit Values: Grid-No.1-Circuit Resistance: For fixed-bias operation. 0.3 max. megohm For cathode-bias operation. 1 max. megohm For cathode-bias operation. 1 max. megohm For cathode-bias operation. 2 max. volts RRID-No.2 SUPPLY VOLTAGE. 600 max. volts GRID-No.2 SUPPLY VOLTAGE. 600 max. volts GRID-No.2 (SCREEN-GRID) VOLTAGE: 330 max. volts GRID-No.1 (CONTROL-GRID) VOLTAGE: 330 max. volts GRID-No.1 (CONTROL-GRID) VOLTAGE: 330 max. volts GRID-No.2 INPUT: Peak. 4 max. watts Average 2 max. watts PLATE DISSIPATION 13.2 max. watts PLATE DISSIPATION 13.2 max. watts PLATE DISSIPATION 13.2 max. volts Typical Operation:  Values are for 2 tubes  Plate Supply Voltage. 250 300 volts Grid-No.2 Supply Voltage. 250 300 volts Cathode Resistor. 130 130 ohms Peak AF Grid-No.1-to-Grid-No.1 Voltage. 22.4 28 volts	Typical Operation:				
Grid-No.1-Circuit Resistance: For fixed-bias operation	Plate Supply Voltage. Grid-No.2 Supply Voltage. Cathode Resistor. Peak AF Grid-No.1 Voltage. Zero-Signal Plate Current MaxSignal Plate Current Zero-Signal Grid-No.2 Current MaxSignal Grid-No.2 Current Effective Load Resistance. Total Harmonic Distortion MaxSignal Power Output.	250 135 7.3 48 50.6 5.5 10 5200 10		volts ohms volts ma ma ma ohms	
For fixed-bias operation					
Maximum Ratings, Design-Naximum Values:  PLATE SUPPLY VOLTAGE	Grid-No.1-Circuit Resistance: For fixed-bias operation For cathode-bias operation		max.	meaohm	
PLATE SUPPLY VOLTAGE			max.		
GRID—No.2 INPUT: Peak	PUSH-PULL AF POWER AMPLIFIER — CI		max.		
Peak	PUSH-PULL AF POWER AMPLIFIER — CI Maximum Ratings, Design-Naximum Values: PLATE SUPPLY VOLTAGE	600 330 600 330 100	max. max. max. max. max.	volts volts volts volts	
Heater negative with respect to cathode 100 max. volts Heater positive with respect to cathode 100 max. volts  Typical Operation:  Values are for 2 tubes  Plate Supply Voltage	PUSH-PULL AF POWER AMPLIFIER — CI Maximum Ratings, Design-Naximum Values: PLATE SUPPLY VOLTAGE	600 330 600 330 100	max. max. max. max. max.	volts volts volts volts	
Typical Operation:  Values are for 2 tubes  Plate Supply Voltage	PUSH-PULL AF POWER AMPLIFIER — CI Maximum Ratings, Design-Maximum Values: PLATE SUPPLY VOLTAGE. PLATE VOLTAGE GRID-No.2 SUPPLY VOLTAGE. GRID-No.1 (CONTROL-GRID) VOLTAGE Negative-bias value CATHODE CURRENT GRID-No.2 INPUT: Peak. Average PLATE DISSIPATION	600 330 600 330 100 65	max. max. max. max. max. max. max.	volts volts volts volts volts watts	
Values are for 2 tubes  Plate Supply Voltage	PUSH-PULL AF POWER AMPLIFIER — CI Maximum Ratings, Design-Maximum Values:  PLATE SUPPLY VOLTAGE	600 330 600 330 100 65 4 2 13.2	max. max. max. max. max. max. max. max.	volts volts volts volts volts watts watts watts volts	
Plate Supply Voltage	PUSH-PULL AF POWER AMPLIFIER — CI Maximum Ratings, Design-Maximum Values:  PLATE SUPPLY VOLTAGE	600 330 600 330 100 65 4 2 13.2	max. max. max. max. max. max. max. max.	volts volts volts volts volts watts watts watts volts	
Grid-No.2 Supply Voltage	PUSH-PULL AF POWER AMPLIFIER — CI Maximum Ratings, Design-Naximum Values:  PLATE SUPPLY VOLTAGE	600 330 600 330 100 65 4 2 13.2	max. max. max. max. max. max. max. max.	volts volts volts volts volts watts watts watts volts	
	PUSH-PULL AF POWER AMPLIFIER — CI Maximum Ratings, Design-Naximum Values:  PLATE SUPPLY VOLTAGE	600 330 600 330 100 65 4 2 13.2	max. max. max. max. max. max. max. max.	volts volts volts volts volts watts watts volts volts	

MaxSignal Plate Current	ma ma ma ims %
Maximum Circuit Values:	
Grid-No.1-Circuit Resistance: For fixed-bias operation 0.3 max. megor For cathode-bias operation 1 max. megor	
PUSH-PULL AF POWER AMPLIFIER - Class B	
Maximum Ratings, Design-Maximum Values:	
PLATE SUPPLY VOLTAGE	ts ts ts ma ts ts
Typical Operation:	
Values are for 2 tubes	
Plate Voltage	ts ts ma ma ma ma ma
Grid-No.1-Circuit Resistance: For fixed-bias operation 0.3 max. megor For cathode-bias operation 1 max. megor	

 $<sup>^{\</sup>mathbf{a}}$  Without external shield.

## **AVERAGE CHARACTERISTICS**



### **OPERATION CHARACTERISTICS**

